

# Fifth Grade Math Investigations Alignment – NC Check-Ins

## A Year at a Glance 2017 – 2018

Math Investigations Unit		Time Frame	CC Math Standards
Quarter 1	<p>*Begin the year by spending a few days introducing the Mathematical Practices and establishing your mathematical community.</p> <p><b>Unit 1 – Number Puzzles and Multiple Towers</b>  <i>Multiplication and Division 1</i> (15 Lessons, 19 Days)</p> <p><b>Investigation 1:</b> Finding Facts and Prime Factors – 7 Lessons</p> <p><b>Investigation 2:</b> Multiplication Strategies – 8 Lessons            (Additional Lesson -- Session 2.4A: Order of Operations)</p> <p>*Additional lessons will be needed to address 5.NF.3 (equal-sharing problems).</p>	August 28 – September 22 4 weeks	<p><b>5.NBT.5</b></p> <p><b>5.NF.3</b></p> <p>5.OA.1 5.OA.2</p>
	<p><b>Unit 2 – Prisms and Pyramids</b>  <i>3-D Geometry and Measurement</i> (12 Lessons, 10 Days)</p> <p><b>Investigation 1:</b> Finding the Volume of Boxes – 8 Lessons            (Additional Lesson -- Session 1.5A: Finding the Volume of Solids)</p> <p><b>Investigation 2:</b> Using Standard Cubic Units – 4 Lessons            (Replace Session 2.4 with Session 2.4A: End-of-Unit Assessment)</p> <p><b>Investigation 3:</b> Volume Relationships Among Solids – Omit</p>	September 25 – October 6 2 weeks	<p>5.MD.3 5.MD.4 <b>5.MD.5</b></p> <p>5.OA.1 5.NBT.5</p>
	<p><b>Unit 3 – Thousands of Miles, Thousands of Seats</b>  <i>Addition, Subtraction, and the Number System</i> (optional)</p> <p><b>Investigation 1:</b> Using Place Values – 5 Lessons</p> <p><b>Investigation 2:</b> Studying Subtraction – 3 Lessons (Omit Sessions 2.4-2.5)</p> <p><b>Investigation 3:</b> Adding and Subtracting with Large Numbers – 5 Lessons</p> <p>*Addition/Subtraction is not a critical area in fifth grade. Sessions in this unit may be combined depending on students' computational fluency.</p>	October 9 – October 27 3 weeks	<p>5.NBT.1 <b>5.NBT.2</b> 5.NBT.3 5.NBT.4</p>
	<p><b>Unit 6 – Decimals on Grids and Number Lines</b>  <i>Decimals, Fractions and Percents 2</i> (11 Lessons, 15 Days)</p> <p><b>Investigation 1:</b> Understanding and Comparing Decimals – 11 Lessons            (Additional Lesson -- Session 1.5A: Rounding Decimals)</p>		
Quarter 2	<p><b>Unit 6 – Decimals on Grids and Number Lines</b>  <i>Decimals, Fractions and Percents 2</i> (9 Lessons, 10 Days)</p> <p><b>Investigation 2:</b> Adding Decimals – 9 Lessons            (Additional Lesson -- Session 2.5A: Decimal Subtraction Problems)</p>	October 30 – November 14 2 weeks	<b>5.NBT.7</b>
	<p><b>Unit 1 – Number Puzzles and Multiple Towers</b>  <i>Multiplication and Division 1</i> (28 Lessons, 15 Days)</p> <p><b>Investigation 3:</b> Division Strategies – 8 Lessons</p> <p><b>Unit 7 – How Many People? How Many Teams?</b>  <i>Multiplication and Division 2</i></p> <p><b>Investigation 1:</b> Equivalence in Multiplication and Division – 4 Lessons</p> <p><b>Investigation 2:</b> Reviewing Multiplication Strategies – 4 Lessons</p> <p><b>Investigation 3:</b> Division Strategies and Notation – 7 Lessons</p> <p><b>Investigation 4:</b> Using the Operations – 5 Lessons</p> <p>*Sessions in this unit may be combined depending on students' computational fluency with multiplication and division.</p>	November 15 – December 8 3 weeks	<p><b>5.NBT.6</b></p> <p>5.NBT.5 5.OA.2</p>

\*Standards in red denote standards that will be assessed on the NC Math Check-Ins.

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Quarter 3	<b>Unit 4 – What’s That Portion? Part I</b> <i>Fractions and Percents 1</i> (21 Lessons, 20 Days) <b>Investigation 1:</b> Using Percents and Fractions – 5 Lessons <b>Investigation 2:</b> Comparing and Ordering Fractions – 6 Lessons *Introduce and review fraction concepts using portions of Investigations 1 and 2. Select lessons and activities to reinforce fraction concepts based on your students’ needs. <b>Investigation 3:</b> Adding and Subtracting Fractions – 10 Lessons *Additional lessons and supplemental resources will be needed to address the fraction concepts related to addition and subtraction.	December 11 – January 19 4 weeks	5.NF.1 5.NF.2 5.NF.3
	<b>Unit 9 – How Long Can You Stand on One Foot?</b> <i>Data Analysis and Probability</i> (3 Lessons, 6 Days) <b>Investigation 1:</b> Comparing Balancing Data – 3 Lessons (Additional Lessons -- Session 1.5A: Fractions on a Line Plot and Session 1.6A: End-of-Unit Assessment) *Additional lessons will be needed to address standard 5.MD.2 (representing fractional measurements on a line plot).	January 24 – January 31 1 week	5.MD.2
	<b>Unit 4 – What’s That Portion? Part III</b> <i>Fractions and Percents 1</i> (10 lessons, 22 Days) <b>Investigation 4A:</b> Multiplying and Dividing Fractions – 10 Lessons *Additional lessons and supplemental resources will be needed to address the fraction concepts related to multiplication and division.	February 1 – March 2 4 weeks	5.NF.2 5.NF.3 5.NF.4 5.NF.5 5.NF.6 5.NF.7
	<b>Unit 6 – Decimals on Grids and Number Lines</b> <i>Decimals, Fractions and Percents 2</i> (9 Lessons, 19 Days) <b>Investigation 3A:</b> More Decimal Operations – 9 Lessons (Additional Lessons -- Sessions 3A.1 – 3A.9) *Standard 5.MD.1 (measurement conversions within systems) is integrated into Investigation 3A (Sessions 3A.8 – 3A.9). Additional lessons may be needed to address this standard.	March 5 – March 29 4 weeks	5.NBT.7 5.MD.1
Quarter 4	<b>Unit 5 – Measuring Polygons</b> <i>2-D Geometry and Measurement</i> (4 Lessons, 5 Days) <b>Investigation 1:</b> Polygons: Names, Properties, and Angles – 4 Lessons (Omit Sessions 1.5 – 1.7 and Investigations 2 & 3) *Additional lessons will be needed to address the geometry standards.	April 9 – April 13 1 week	5.G.3 5.G.4
	<b>Unit 8 – Growth Patterns</b> <i>Patterns, Functions, and Change</i> (5 Lessons, 10 Days) <b>Investigation 1:</b> Height and Growth – 2 Lessons (Omit Sessions 1.1 – 1.2, 1.5) <b>Investigation 2:</b> Growing Patterns – 3 Lessons (Omit Sessions 2.2, 2.5 – 2.8) *Several lessons may be combined to allow more practice with coordinate planes and algebraic concepts such as equations and patterns.	April 16 – April 27 2 weeks	5.OA.1 5.OA.2 5.OA.3 5.G.1 5.G.2
	<b>Review &amp; EOG Tests</b> *Unit 5 (Investigation 2) and 9 (Investigation 2) can be used for enrichment activities at the end of the year.	April 30 – June 8 6 weeks	

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